WESTERN TESTERS

Home Office: Great Bend, Kansas
P. O. Box 793 (316) 793-7903

Company M.& B; McClure & Hart Oil Company Lease & Well No. Strahm #1

Elevation 1223 Kelly Bushings Formation Viola Effective Pay Ft. Ticket No. 15619

Date 2-16-71 Sec. 22 Twp. 22S Range 13E County Greenwood State Kansas

Test Approved by Paul D. Koontz Western Representative Forrest Purnell

Formation Test No. 1 O.K. X Misrun Interval Tested From 2252' to 2264' Total Depth 2264'

Size Main Hole 7 7/8" Rat Hole 6 1/8" Conv. X B.T. Damaged Yes X No Conv. B.T. Damaged Yes No

Packer Depth 2252 Ft. Size 5 1/2" Packer Depth Ft. Size

Straddle Yes No X Conv. B.T. Damaged Yes No

Packer Depth Ft. Size

Tool Size 4 1/2" O.D. Tool Jt. Size 3 1/2" I. F. Anchor Length 12 Ft. Size 4 1/2" O.D.

RECORDERS Depth 2258 Ft. Clock No. 6892 Depth 2261 Ft. Clock No. 6896

Top Make Kuster Cap. 4500 No. 3086 Inside ~~Outside~~ = Bottom Make Kuster Cap. 4300 No. 1566 ~~Inside~~ Outside

Below Straddle: Depth Clock No. Inside Outside Depth Ft. Clock No. Inside Outside

Top Make Cap. No. Inside Outside Bottom Make Cap. No. Inside Outside

Time Set Packer ± 8:28 P. M

Tool Open I.F.P. From 8:30 M. to 8:40P. M. Hr. 10 Min. From (B) 5 P.S.I. To (C) 5 P.S.I.

Tool Closed I.C.I.P. From 8:40 M. to 9:25P. M. Hr. 45 Min. (D) 717 P.S.I.

Tool Open F.F.P. From 9:25 M. to 10:25P M. Hr. 60 Min. From (E) 5 P.S.I. To (F) 5 P.S.I.

Tool Closed F.C.I.P. From 10:25 M. to 11:10P M. Hr. 45 Min. (G) 707 P.S.I.

Initial Hydrostatic Pressure (A) 1119 P.S.I. Final Hydrostatic Pressure (H) 1112 P.S.I.

SURFACE INFORMATION	Size Choke 3/4 In.	Max. Press. P.S.I.	Time	Description of Flow
			M.	
			M.	
			M.	

BLOW Weak blow @ 7 min. Bottom Choke Size 3/4 In.

Did Well Flow Yes X No Recovery Total Ft. 5 feet of heavy oil cut mud

Reversed Out Yes X No Mud Type Chem. Viscosity 36 Weight 9.6 Water Loss 14.0 cc. Maximum Temp. 196 °F

Type Circ. Sub Pin Did Tool Plug? Jars: Size Make Ser. No.

EXTRA EQUIPMENT: Dual Packers No Safety Joint No Did Packer Hold? Yes Where?

Length Drill Pipe 2004 ft. I.D. Drill Pipe 2.7 in. Length Weight Pipe ft. I.D. Weight Pipe in. Length Drill Collars 232 ft.

I. D. Drill Collars 2.7 in. Length D.S.T. Tool 28 ft.

Remarks

22-22-13E

WESTERN TESTING CO., INC.

Pressure Data

Date 2-16-71 Test Ticket No. 15619

Recorder No. 3086 Capacity 4500 Location 2258 Ft.

Clock No. 6892 Elevation 1223 Kelly Bushings Well Temperature 96 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1119 P.S.I.	Open Tool	8:28 P.M	
B First Initial Flow Pressure	5 P.S.I.	First Flow Pressure	10 Mins.	10 Mins.
C First Final Flow Pressure	5 P.S.I.	Initial Closed-in Pressure	45 Mins.	45 Mins.
D Initial Closed-in Pressure	717 P.S.I.	Second Flow Pressure	60 Mins.	60 Mins.
E Second Initial Flow Pressure	5 P.S.I.	Final Closed-in Pressure	45 Mins.	45 Mins.
F Second Final Flow Pressure	5 P.S.I.			
G Final Closed-in Pressure	707 P.S.I.			
H Final Hydrostatic Mud	1112 P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 2 Inc.
of 5 mins. and a
final inc. of ____ Min.

Point Mins.	Press.
P 1 0	5
P 2 5	5
P 3 10	5
P 4	
P 5	
P 6	
P 7	
P 8	
P 9	
P10	
P11	
P12	
P13	
P14	
P15	
P16	
P17	
P18	
P19	
P20	

Initial Shut-In
Breakdown: 15 Inc.
of 3 mins. and a
final inc. of ____ Min.

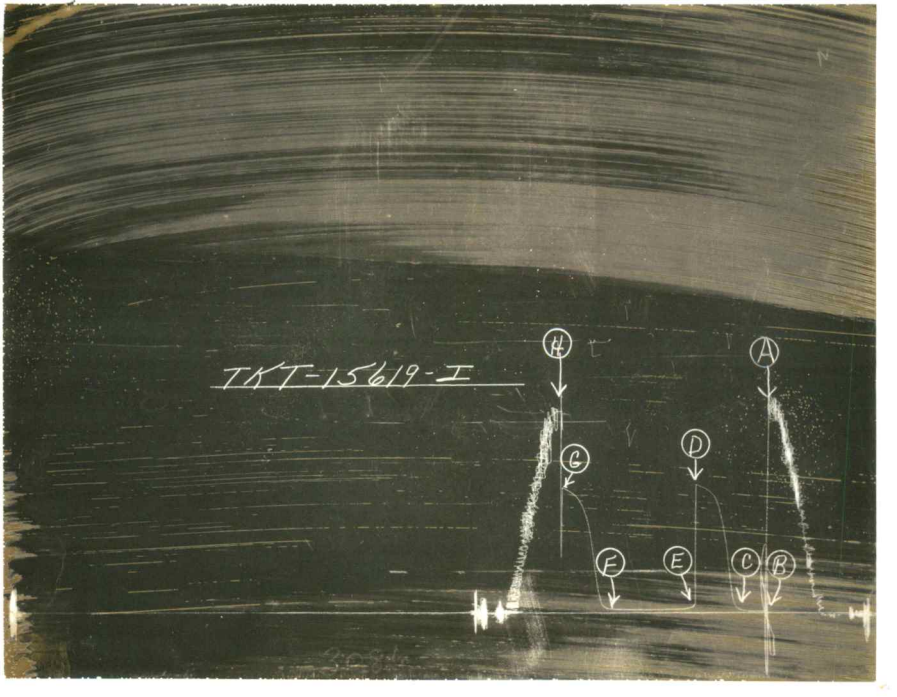
Point Minutes	Press.
0	5
3	18
6	92
9	251
12	414
15	530
18	609
21	653
24	678
27	693
30	704
33	707
36	710
39	713
42	715
45	717

Second Flow Pressure
Breakdown: 12 Inc.
of 5 mins. and a
final inc. of ____ Min.

Point Minutes	Press.
0	5
5	5
10	5
15	5
20	5
25	5
30	5
35	5
40	5
45	5
50	5
55	5
60	5

Final Shut-In
Breakdown: 15 Inc.
of 3 mins. and a
final inc. of ____ Min.

Point Minutes	Press.
0	5
3	18
6	82
9	244
12	414
15	516
18	583
21	622
24	648
27	667
30	683
33	694
36	699
39	702
42	705
45	707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H
A
G
D
F
E
C
B

22-22-13E

WESTERN TESTERS

Home Office: Great Bend, Kansas

P. O. Box 793 (316) 793-7903

Company M. & B.; McClure & Hart Oil Co. Lease & Well No. Strahm #1

Elevation 1223 Kelly Bushings Formation Viola Effective Pay Ft. Ticket No. 15620

Date 2-17-71 Sec. 22 Twp. 22S Range 13E County Greenwood State Kansas

Test Approved by John Shumaker Western Representative Forrest Purnell

Formation Test No. 2 O.K. X Misrun Interval Tested From 2258' to 2276' Total Depth 2276'

Size Main Hole 7 7/8" Rat Hole 6 1/8" Conv. X B.T. Damaged Yes X No Conv. B.T. Damaged Yes No

Packer Depth 2258 Ft. Size 5 1/2" Packer Depth Ft. Size

Straddle Yes No X Conv. B.T. Damaged Yes No

Packer Depth Ft. Size

Tool Size 4 1/2" O.D. Tool Jt. Size 3 1/2" I.F. Anchor Length 18 Ft. Size 4 1/2" O.D.

RECORDERS Depth 2273 Ft. Clock No. 6892 Depth 2270 Ft. Clock No. 6896

Top Make Kuster Cap. 4500 No. 3086 Inside Outside Bottom Make Kuster Cap. 4300 No. 1566 Inside Outside

Below Straddle: Depth Clock No. Inside Outside Depth Ft. Clock No. Inside Outside

Top Make Cap. No. Inside Outside Bottom Make Cap. No. Inside Outside

Time Set Packer 1:13 P. M

Tool Open I.F.P. From 1:15 M. to 1:25 P M. Hr. 10 Min. From (B) 4 P.S.I. To (C) 6 P.S.I.

Tool Closed I.C.I.P. From 1:25 M. to 2:10P. M. Hr. 45 Min. (D) 719 P.S.I.

Tool Open F.F.P. From 2:10 M. to 4:10P. M. Hr. 120 Min. From (E) 6 P.S.I. To (F) 52 P.S.I.

Tool Closed F.C.I.P. From 4:10 M. to 4:55P. M. Hr. 45 Min. (G) 634 P.S.I.

Initial Hydrostatic Pressure (A) 1161 P.S.I. Final Hydrostatic Pressure (H) 1148 P.S.I.

SURFACE INFORMATION	Size Choke 3/4 In.	Max. Press. P.S.I.	Time	Description of Flow
			M.	
			M.	
			M.	

BLOW Weak blow thru out test Bottom Choke Size 3/4 In.

Did Well Flow Yes X No Recovery Total Ft. 180 feet of fluid - 60 feet of slightly oil cut muddy water

120 feet of muddy water

Reversed Out Yes X No Mud Type Chem. Viscosity 36 Weight 9.6 Water Loss 14.0 cc. Maximum Temp. 96 °F

Type Circ. Sub. Pin Did Tool Plug? No Jars: Size Make Ser. No.

EXTRA EQUIPMENT: Dual Packers No Safety Joint No Did Packer Hold? Yes Where?

Length Drill Pipe 2009 ft. I.D. Drill Pipe 2.7 in. Length Weight Pipe ft. I.D. Weight Pipe in. Length Drill Collars 232 ft.

I. D. Drill Collars 2 in. Length D.S.T. Tool 34 ft.

Remarks

22-22-13E

WESTERN TESTING CO., INC.
Pressure Data

Date 2-17-71 Test Ticket No. 15620

Recorder No. 3086 Capacity 4500 Location 2273 Ft.

Clock No. 6892 Elevation 1223 Kelly Bushings Well Temperature 96 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1161 P.S.I.	Open Tool	1:13 P.M.	
B First Initial Flow Pressure	4 P.S.I.	First Flow Pressure	10 Mins.	10 Mins.
C First Final Flow Pressure	6 P.S.I.	Initial Closed-in Pressure	45 Mins.	45 Mins.
D Initial Closed-in Pressure	719 P.S.I.	Second Flow Pressure	120 Mins.	120 Mins.
E Second Initial Flow Pressure	6 P.S.I.	Final Closed-in Pressure	45 Mins.	45 Mins.
F Second Final Flow Pressure	52 P.S.I.			
G Final Closed-in Pressure	634 P.S.I.			
H Final Hydrostatic Mud	1148 P.S.I.			

PRESSURE BREAKDOWN

First Flow Pressure
Breakdown: 2 Inc. of 5 mins. and a final inc. of ____ Min.

Point Mins.	Press.
P 1 0	4
P 2 5	5
P 3 10	6
P 4	
P 5	
P 6	
P 7	
P 8	
P 9	
P10	
P11	
P12	
P13	
P14	
P15	
P16	
P17	
P18	
P19	
P20	

Initial Shut-In
Breakdown: 15 Inc. of 3 mins. and a final inc. of ____ Min.

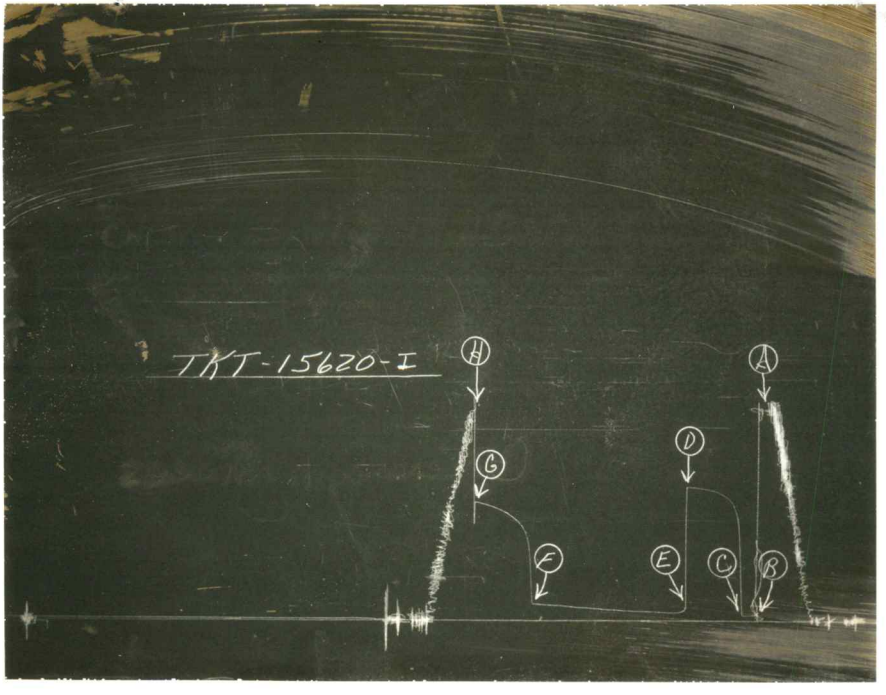
Point Minutes	Press.
0	6
3	471
6	611
9	643
12	664
15	683
18	690
21	700
24	710
27	712
30	714
33	715
36	716
39	717
42	718
45	719

Second Flow Pressure
Breakdown: 24 Inc. of 5 mins. and a final inc. of ____ Min.

Point Minutes	Press.
0	6
5	6
10	6
15	6
20	7
25	7
30	8
35	9
40	11
45	14
50	16
55	18
60	20
65	23
70	26
75	29
80	31
85	34
90	37
95	39
100	42
105	45
110	47
115	49
120	52

Final Shut-In
Breakdown: 15 Inc. of 3 mins. and a final inc. of ____ Min.

Point Minutes	Press.
0	52
3	412
6	485
9	516
12	539
15	558
18	570
21	583
24	592
27	602
30	611
33	618
36	622
39	627
42	631
45	634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